## Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims**:

- 1. (Previously presented) A nucleic acid-cationic immunoliposome complex comprising I) a cationic liposome, ii) an antibody or antibody fragment, and iii) a nucleic acid wherein said nucleic acid-cationic immunoliposome complex is prepared by a method comprising the steps of:
  - a) preparing said antibody or antibody fragment;
    - b) mixing said antibody or antibody fragment with said cationic liposome to form a cationic immunoliposome; and
    - c) mixing said cationic immunoliposome with said nucleic acid to form said nucleic acid-cationic immunoliposome complex;

wherein said antibody or antibody fragment and said cationic liposome are present at a protein:lipid ratio (w:w) in the range of 1:5 to 1:40 and wherein said nucleic acid and said cationic liposome are present at a nucleic acid:lipid (µg:nmol) ratio in the range of 1:6 to 1:20.

2. (Oirignal) The nucleic acid-cationic immunoliposome complex of claim 1 wherein said antibody or antibody fragment is capable of binding to a transferrin receptor.

- (Original) The nucleic acid-cationic immunoliposome complex of claim 1
   wherein said nucleic acid is DNA.
- (Original) The nucleic acid-cationic immunoliposome complex of claim 1
   wherein said nucleic acid encodes a wild type p53.
- (Original) The nucleic acid-cationic immunoliposome complex of claim 1
   wherein said antibody or antibody fragment comprises a lipid tag.
- 6. (Original) The nucleic acid-cationic immunoliposome complex of claim 1 wherein said antibody or antibody fragment is covalently bound to said cationic liposome via a sulfur atom which was part of a sulfhydryl group at a carboxy terminus on said antibody or antibody fragment.
- 7. (Original) The nucleic acid-cationic immunoliposome complex of claim 6 wherein said sulfur atom is part of a cysteine residue.
- 8. (Original) The nucleic acid-cationic immunoliposome complex of claim 6 wherein said antibody or antibody fragment is covalently bound to DOPE linked to MPB or other sulfhydryl reacting group.

- 9. (Original) The nucleic acid-cationic immunoliposome complex of claim 1 wherein said antibody fragment is a single chain.
- 10-11. (Canceled)
- (Original) A pharmaceutical composition comprising the nucleic acid-cationic immunoliposome complex of claim 1.
- 13-25 (Canceled)
- 26. (Previously presented) A method of preparing a nucleic acid-cationic immunoliposome complex comprising the steps of:
  - a) preparing an antibody or antibody fragment;
  - b) mixing said antibody or antibody fragment with a cationic liposome to form a cationic immunoliposome; and
  - c) mixing said cationic immunoliposome with nucleic acid to form said nucleic acid-cationic immunoliposome complex;

wherein said antibody or antibody fragment and said cationic liposome are present at a protein:lipid ratio (w:w) in the range of 1:5 to 1:40 and wherein said nucleic acid and said cationic liposome are present at a nucleic acid:lipid (µg:nmol) ratio in the range of 1:6 to 1:20.

- 27. (Orignal) The method of claim 26 wherein said nucleic acid encodes a wild type p53.
- 28. (Original) The method of claim 26 wherein said antibody or antibody fragment is capable of binding to a transferrin receptor.
- 29. (Original) The method of claim 26 wherein said antibody or antibody fragment comprises a lipid tag.
- 30. (Original) The method of claim 26 wherein said antibody or antibody fragment comprises a reducible group at a carboxy terminus prior to mixing with said nucleic acid-liposome complex.
- 31. (Original) The method of claim 30 wherein said reducible group is a sulfhydryl.
- 32. (Original) The method of claim 31 wherein said sulfhydryl is part of a cysteine residue.
- 33. (Original) The method of claim 31 wherein said antibody or antibody fragment is covalently bound to said cationic liposome via a sulfur atom of said reducible group.

- 34. (Original) The method of claim 30 wherein said cationic liposome comprises MPB-DOPE.
- 35. (Original) The method of claim 26 wherein said nucleic acid is DNA.
- 36-37. (Canceled)
- 38. (Original) The method of claim 26 wherein said antibody fragment is a single chain.
- 39. (Previously presented) A method for providing a therapeutic molecule to an animal in need thereof, comprising administering to said animal a therapeutically effective amount of a nucleic acid-cationic immunoliposome complex comprising
  I) a cationic liposome, ii) an antibody or antibody fragment, and iii) a nucleic acid wherein said nucleic acid-cationic immunoliposome complex is prepared by a method comprising the steps of:
  - a) preparing said antibody or antibody fragment;
  - b) mixing said antibody or antibody fragment with a cationic liposome to form a cationic immunoliposome; and
  - c) mixing said cationic immunoliposome with said nucleic acid to form said nucleic acid-cationic immunoliposome complex;

wherein said antibody or antibody fragment and said cationic liposome are present at a protein:lipid ratio (w:w) in the range of 1:5 to 1:40 and wherein said nucleic acid and said cationic liposome are present at a nucleic acid:lipid (µq:nmol) ratio in the range of 1:6 to 1:20.

- 40. (Original) The method of claim 39 wherein said complex is administered systemically.
- 41. (Original) The method of claim 39 wherein said complex is administered intravenously.
- 42. (Original) The method of claim 39 wherein said antibody or antibody fragment is capable of binding to a transferrin receptor.
- 43. (Original) The method of claim 39 wherein said antibody fragment is a single chain.
- 44. (Original) The method of claim 39 wherein said nucleic acid is DNA.
- 45. (Original) The method of claim 39 wherein said nucleic acid encodes a wild type p53.

- 46. (Original) The method of claim 39 wherein said antibody or antibody fragment comprises a lipid tag.
- 47. (Original) The method of claim 39 wherein said antibody or antibody fragment is covalently bound to said cationic liposome via a sulfur atom which was part of a reducible group at a carboxy terminus on said antibody or antibody fragment.
- 48. (Original) The method of claim 47 wherein said reducible group is a sulfhydryl.
- 49. (Original) The method of claim 48 wherein said sulfhydryl is part of a cysteine residue.
- 50. (Original) The method of claim 47 wherein said antibody or antibody fragment is covalently bound to DOPE linked to MPB or other sulfhydryl reacting group.
- 51-52. (Canceled)
- 53. (Original) The method according to claim 39 wherein said animal is a human.
- 54. (Original) The method according to claim 39 wherein said animal has cancer.

- 55. (Orignal) The method according to claim 54 wherein said cancer is selected from the group consisting of I) head and neck cancer, ii) breast cancer and iii) prostate cancer.
- 56. (Previously presented) A kit comprising
  - I) a nucleic acid;
  - ii) a cationic immunoliposome; and
  - iii) an instruction manual for preparing a nucleic acid-cationic immunoliposome complex prepared by a method comprising the steps of:
    - a) preparing an antibody or antibody fragment;
  - b) mixing said antibody or antibody fragment with said cationic liposome to form a cationic immunoliposome; and
  - c) mixing said cationic immunoliposome with said nucleic acid to form said nucleic acid-cationic immunoliposome complex; wherein said antibody or antibody fragment and said cationic liposome are present at a protein:lipid ratio (w:w) in the range of 1:5 to 1:40 and wherein said nucleic acid and said cationic liposome are present at a nucleic acid:lipid (µg:nmol) ratio in the range of 1:6 to 1:20.
- 57. (Original) The kit of claim 56 wherein said nucleic acid encodes a wild type p53.

- 58. (Original) The kit of claim 56 wherein said cationic liposome comprises an antibody or antibody fragment capable of binding to a transferrin receptor.
- 59. (Original) The kit of claim 56 wherein said antibody fragment is a single chain.
- 60. (Original) The kit of claim 56 wherein said antibody fragment comprises a lipid tag.
- 61. (Original) The kit of claim 56 wherein said antibody fragment is conjugated to a cationic liposome.
- 62. (Canceled)
- 63. (Original) The kit of claim 56 wherein said cationic immunoliposome is in an aqueous solution.
- 64. (Original) The kit of claim 56 further comprising a nucleic acid for use as a positive control in a container separate from said cationic immunoliposome.

- 65. (Original) The kit of claim 64 wherein said nucleic acid encodes a reporter gene selected from the group consisting of luciferase, β-galactosidase and green fluorescent protein.
- 66. (Original) A method of transfecting cells with a desired nucleic acid wherein said method comprises administering the nucleic acid-cationic immunoliposome complex of the kit of claim 56 to said cells wherein said complex comprises said desired nucleic acid.
- 67. (Original) The method of claim 66 wherein said method is performed in vitro.
- 68. (Original) A method of transfecting cells in a tissue in an animal with a desired nucleic acid wherein said method comprises administering the nucleic acid-cationic immunoliposome complex of the kit of claim 56 to said cells wherein said complex comprises said desired nucleic acid.
- 69. (New) The nucleic acid-cationic immunoliposome complex of claim 1, wherein said complex comprises a cationic liposome, an antibody fragment capable of binding to a transferrin receptor and a nucleic acid complex encoding a wild type p53.

- 70. (New) The method of claim 26, wherein said antibody fragment is capable of binding to a transferrin receptor and said nucleic acid encodes a wild type p53.
- 71. (New) The method of claim 39, wherein said antibody fragment is capable of binding to a transferrin receptor and said nucleic acid encodes a wild type p53.
- 72. (New) The kit of claim 56, wherein said antibody fragment is capable of binding to a transferrin receptor and said nucleic acid encodes a wild type p53.